

Louisiana Delta Community College

Academic Affairs Master Syllabus

Course Name: TECHNICAL MATHEMATICS I

Course Number: MATH 1110

Credit Lecture hours: 3 **Credit Lab Hours:** 0 **Contact Hours:** 45

Textbook, Author, and Publisher: To be provided by College Campus

Instructor Information: To be provided by College Campus

Class Location: To be provided by College Campus

Course Description: A study of algebra, right triangle trigonometry, coordinate systems, and numerical computations.

Prerequisites: None

Co-requisites: None

Learning Outcomes:

On completion of this course, the student should be able to perform the following with a proficiency that complies with the minimum standard of industry:

1. Evaluate algebraic expressions
2. Solve practical problems using signed numbers
3. Combine operations of literal term expressions and solve
4. Compute expressions using scientific notation
5. Solve problems by writing equations and determining the values of unknowns.
6. Solve equations consisting of combined operations
7. Rearrange formulas to solve for any letter value
8. Locate points in the Cartesian coordinate system
9. Graph linear equations
10. Determine linear equations given the slope, y-intercept or any two points
11. Solve a system of equations
12. Determine whether a system of equations are consistent, inconsistent, or dependent
13. Write and solve systems of equations from word problems
14. State the ratios of the six trigonometric functions in relations to a give triangle
15. Compute cofunctions of complementary angles
16. Compute unknown angles or sides of a triangle using trigonometric functions
17. Solve complex applied problems involving right triangles.

Assessment Measures: To be provided by the College Campus.

Library Resource Center:

The Delta Library and Learning Resource Center is committed to providing quality information and learning resources and services, including technology, in supporting the overall mission of Delta Community College and its commitment to lifelong learning.

Special Accommodations:

Louisiana Delta Community College complies with Section 504 of the Rehabilitation Act, as well as the Americans with Disabilities Act. Students with disabilities who attend the Monroe campus may make a request by contacting the Director of Counseling and Disability Services (345-9152, Room 155) at the beginning of each semester.

Reasonable accommodations will be attempted for students with documented disabilities. If an impairment is identified later in the semester, a non-retroactive accommodation plan will be developed.

Students at satellite campuses should contact the Coordinator of Student Affairs at their particular campus.

Student Code of Conduct:

Louisiana Delta Community College encourages an environment of academic integrity and mutual respect. Students should read and follow both academic and behavioral expectations identified in the Code of Student Conduct that can be found online at www.ladelta.edu. Students are expected to act with integrity, respect the rights of others, and conduct themselves in a professional manner. The Honor Code prohibits academic misconduct such as cheating, engaging in unauthorized collaboration, and plagiarism. Violations of the Code of Student Conduct may result in disciplinary action as provided in the Code. Incidents are reported through the online Student Conduct system.